

**Table A1: Stand Level Biomass Expansion Factors for Different Species and Regions in Canada**

Region		Species				
Province	Terrestrial Ecozone	Spruce	Pine	Hybrid Poplar	Other SW	Other HW
AB	Boreal Plains	1.20	1.05	1.08	1.09	1.26
AB	Boreal Shield West	1.09	1.09	1.11	1.09	1.11
AB	Montane Cordillera	1.21	1.20	0.95	1.18	1.26
AB	Prairies	1.09	1.09	1.11	1.09	1.26
AB	Taiga Plains	0.94	0.86	0.99	0.98	0.99
AB	Taiga Shield West	0.98	0.98	0.99	0.98	0.99
BC	Boreal Cordillera	1.34	1.26	1.67	1.36	1.35
BC	Boreal Plains	1.09	1.11	1.48	1.08	1.42
BC	Montane Cordillera	1.19	1.19	1.56	1.48	1.55
BC	Pacific Maritime	1.43	2.08	1.54	1.72	1.47
BC	Taiga Plains	1.09	0.90	1.37	1.02	1.29
MB	Boreal Plains	0.79	0.69	0.71	0.75	0.71
MB	Boreal Shield West	0.80	0.68	0.78	0.73	0.79
MB	Hudson Plains	0.73	0.73	0.79	0.73	0.79
MB	Prairies	0.75	0.75	0.71	0.75	0.71
MB	Taiga Shield West	0.73	0.73	0.79	0.73	0.79
NB	Atlantic Maritime	0.88	0.83	1.03	0.82	1.04
NL	Boreal Shield East	1.08	1.16	0.95	1.16	0.95
NL	Taiga Shield East	0.81	1.01	0.95	1.01	0.95
NS	Atlantic Maritime	0.86	1.52	0.93	0.88	1.13
NU	Hudson Plains	0.80	0.80	0.95	0.80	0.95
NU	Taiga Shield West	0.90	0.90	0.85	0.90	0.85
NT	Boreal Cordillera	0.88	0.88	0.93	0.88	0.93
NT	Boreal Plains	1.09	1.09	1.11	1.09	1.11
NT	Taiga Cordillera	0.88	0.88	0.93	0.88	0.93
NT	Taiga Plains	0.90	0.90	0.85	0.90	0.85
NT	Taiga Shield West	0.90	0.90	0.85	0.90	0.85
ON	Boreal Shield East	0.82	0.74	0.79	0.77	0.78
ON	Boreal Shield West	0.82	0.74	0.79	0.77	0.78
ON	Hudson Plains	0.80	0.80	0.95	0.80	0.95
ON	Mixedwood Plains	0.69	0.69	0.84	0.69	0.84
PE	Atlantic Maritime	0.81	0.84	0.94	0.84	1.06
QC	Atlantic Maritime	0.86	0.75	0.89	0.87	1.06
QC	Boreal Shield East	0.82	0.71	0.84	0.81	0.98
QC	Hudson Plains	0.83	0.80	0.95	0.80	0.95
QC	Mixedwood Plains	0.91	0.74	0.84	0.78	0.94
QC	Taiga Shield East	0.80	0.80	0.95	0.80	0.95
SK	Boreal Plains	0.85	0.74	0.78	0.83	0.79
SK	Boreal Shield West	0.84	0.81	0.79	0.84	0.79
SK	Taiga Shield West	0.73	0.73	0.79	0.73	0.79
SK	Prairies	0.75	0.75	0.71	0.75	0.71
YT	Boreal Cordillera	0.87	0.88	0.95	0.88	0.93
YT	Pacific Maritime	1.72	1.72	1.47	1.72	1.47
YT	Taiga Cordillera	0.88	0.88	0.93	0.88	0.93
YT	Taiga Plains	1.02	1.02	1.29	1.02	1.29

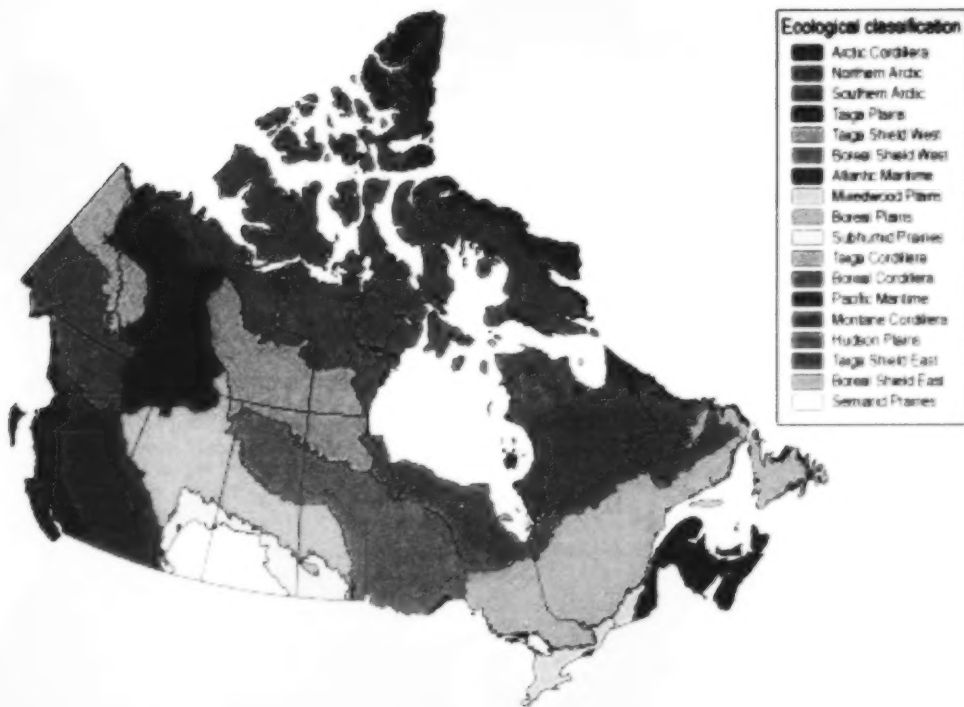
Figure A1: Terrestrial Ecozones of Canada (Environment Canada, 1996; Kull *et al.*, 2006).

Table A2: Stand Level Root-to-Shoot Ratios for Different Species and Regions in Canada

Region		Species				
Province	Terrestrial Ecozone	Spruce	Pine	Hybrid Poplar	Other SW	Other HW
AB	Boreal Plains	0.133	0.116	0.141	0.121	0.155
AB	Boreal Shield West	0.121	0.121	0.143	0.121	0.143
AB	Montane Cordillera	0.134	0.133	0.130	0.131	0.155
AB	Prairies	0.121	0.121	0.143	0.121	0.155
AB	Taiga Plains	0.104	0.095	0.133	0.109	0.133
AB	Taiga Shield West	0.109	0.109	0.133	0.109	0.133
BC	Boreal Cordillera	0.148	0.140	0.183	0.151	0.161
BC	Boreal Plains	0.120	0.123	0.170	0.120	0.167
BC	Montane Cordillera	0.131	0.131	0.176	0.164	0.175
BC	Pacific Maritime	0.159	0.231	0.175	0.190	0.170
BC	Taiga Plains	0.120	0.099	0.163	0.113	0.157
MB	Boreal Plains	0.088	0.076	0.109	0.083	0.109
MB	Boreal Shield West	0.089	0.075	0.115	0.080	0.116
MB	Hudson Plains	0.080	0.080	0.116	0.080	0.116
MB	Prairies	0.083	0.083	0.109	0.083	0.109
MB	Taiga Shield West	0.080	0.080	0.116	0.080	0.116
NB	Atlantic Maritime	0.097	0.092	0.136	0.091	0.137
NL	Boreal Shield East	0.120	0.128	0.129	0.128	0.129
NL	Taiga Shield East	0.090	0.112	0.129	0.112	0.129
NS	Atlantic Maritime	0.096	0.168	0.128	0.097	0.145
NU	Hudson Plains	0.088	0.088	0.129	0.088	0.129
NU	Taiga Shield West	0.099	0.099	0.121	0.099	0.121
NT	Boreal Cordillera	0.097	0.097	0.129	0.097	0.129
NT	Boreal Plains	0.121	0.121	0.143	0.121	0.143
NT	Taiga Cordillera	0.097	0.097	0.129	0.097	0.129
NT	Taiga Plains	0.099	0.099	0.121	0.099	0.121
NT	Taiga Shield West	0.099	0.099	0.121	0.099	0.121
ON	Boreal Shield East	0.091	0.082	0.116	0.086	0.115
ON	Boreal Shield West	0.091	0.082	0.116	0.086	0.115
ON	Hudson Plains	0.088	0.088	0.129	0.088	0.129
ON	Mixedwood Plains	0.076	0.076	0.120	0.076	0.120
PE	Atlantic Maritime	0.090	0.093	0.129	0.093	0.139
QC	Atlantic Maritime	0.096	0.083	0.125	0.096	0.139
QC	Boreal Shield East	0.091	0.078	0.120	0.089	0.133
QC	Hudson Plains	0.092	0.088	0.129	0.089	0.129
QC	Mixedwood Plains	0.100	0.082	0.120	0.087	0.129
QC	Taiga Shield East	0.089	0.089	0.129	0.089	0.129
SK	Boreal Plains	0.094	0.082	0.115	0.092	0.116
SK	Boreal Shield West	0.093	0.089	0.116	0.093	0.116
SK	Taiga Shield West	0.080	0.0800	0.116	0.08	0.116
SK	Prairies	0.083	0.083	0.109	0.083	0.109
YT	Boreal Cordillera	0.096	0.097	0.130	0.097	0.129
YT	Pacific Maritime	0.190	0.190	0.170	0.190	0.170
YT	Taiga Cordillera	0.097	0.097	0.129	0.097	0.129
YT	Taiga Plains	0.113	0.113	0.157	0.113	0.157

**Table A3: Select Density Values for a Selection of Species**

<b>Species</b>	<b>Density (t/m<sup>3</sup>)</b>
Trembling aspen	0.37
Black cottonwood	0.30
Willow (US)	0.39
White birch	0.51
Sugar maple	0.60
White ash	0.57
Red oak	0.58
Black walnut	0.55
Balsam fir	0.34
Jack pine	0.42
Lodgepole pine	0.40
Ponderosa pine	0.44
Red pine	0.39
Jack pine	0.42
White pine (eastern & western)	0.36
White spruce	0.35
Douglas-fir	0.45
Western larch	0.55
Western red cedar	0.31
Tamarack	0.48
Other softwoods and hybrid poplars	0.37
Other deciduous hardwoods	0.60

**Table A4: Miscellaneous Factors**

<b>Parameter</b>	<b>Density (t/m<sup>3</sup>)</b>
Mass of Carbon per Mass Dry Biomass	0.5
Mass of Above-ground Biomass per Mass of Merchantable Biomass	1.45